FLORENCE COPPER INC.



1575 W. Hunt Highway, Florence, Arizona 85132 USA

florencecopper.com

October 7, 2019 File No. 132473-003

ADEQ Water Quality Compliance Section Mail Code 5415B-1 1110 West Washington Street Phoenix, Arizona 85007

Attention: Mr. Tracy Bunch

Subject: Weekly Monitoring Report for Week Ending 09/28/2019

Florence Copper, Production Test Facility

Aquifer Protection Permit No. 106360, LTF 61845

Dear Mr. Bunch:

Florence Copper is submitting this report in accordance with Table 4.1-8 and Section 2.7.4.4 of the Production Test Facility Temporary Aquifer Protection Permit (APP) No. 106360.

In accordance with Table 4.1-8 of the APP, this report includes In-Situ Best Available Demonstrated Control Technology (BADCT) compliance monitoring for the PTF that is required to be reported on a weekly basis including:

- Recovered volume to injection volume;
- Inward hydraulic gradient; and
- Maximum injection pressure.

A map showing the location of the PTF injection, recovery, and observation wells is included as Figure 1.

Recovered Volume to Injection Volume

A summary of the injected and recovered volumes for the week of 09/22/2019 to 09/28/2019 is included in Table 1. The total injected and recovered volumes for the PTF as a daily total are also presented on Figure 2.

During the reporting period no exceedance of the alert level was measured for recovered volume to injected volume. The alert level is the recovered volume shall exceed the injected volume.

Inward Hydraulic Gradient

Table 2 includes a summary of water levels in the recovery and observation well pairs. Hydrographs showing the water level elevation for each recovery well and observation well pair are included in Figure 3.



During the reporting period, there was no exceedance of the alert level for the inward hydraulic gradient. The alert level for the inward hydraulic gradient is that the water level elevation in the paired observation well must be a minimum of 1 foot higher than the paired recovery well.

Injection Pressure

A summary of the injection pressures during the reporting period is included as Table 3.

During the reporting period no alert levels were exceeded for injection pressure, the injection pressure limit for the injection wells is limited by the fracture gradient of 0.65 pounds per square inch (psi) per foot. For the PTF injection wells this pressure limit equates to 104 psi.

Please contact me at 520-374-3984 if you require any additional information.

Sincerely,

Florence Copper Inc.

Dan Johnson

Vice President - General Manager

Attachments:

Tables and Figures

cc: Marybeth Greenslade, ADEQ

Nancy Rumrill, United States Environmental Protection Agency

TABLES

Table 1. Injected and recovered volumes (gallons) for the week 09/22/2019 – 09/28/2019

	Daily	Daily		
	Injection	Recovery	Ratio	%
Date	Flow	Flow	PLS/Raff	Recovery
09/22/19	357600	400500	1.12	112
09/23/19	357900	401400	1.12	112
09/24/19	356100	402500	1.13	113
09/25/19	356100	400700	1.13	113
09/26/19	357700	402700	1.13	113
09/27/19	358800	396500	1.11	111
09/28/19	357300	405200	1.13	113
Weekly Avg	357357	401357	1.12	112

Table 2. Average daily water levels in the recovery and observation well pairs (amsl)

Well Pairs							
Avg Elev	9/22/19	9/23/19	9/24/19	9/25/19	9/26/19	9/27/19	9/28/19
R-01	1227.18	1228.11	1228.44	1228.33	1229.47	1230.96	1231.56
O-01	1239.32	1240.43	1240.30	1240.52	1241.14	1242.43	1243.37
O-07	1238.90	1240.25	1239.88	1238.47	1239.08	1240.86	1244.65
R-02	1213.60	1215.27	1214.05	1214.14	1215.94	1219.06	1218.31
O-01	1239.32	1240.43	1240.30	1240.52	1241.14	1242.43	1243.37
O-02	1241.99	1243.09	1242.93	1243.24	1243.83	1245.12	1245.92
R-03	1208.34	1206.79	1203.43	1205.79	1206.09	1208.06	1208.43
O-02	1241.99	1243.09	1242.93	1243.24	1243.83	1245.12	1245.92
O-03	1244.53	1245.66	1245.79	1246.47	1246.73	1247.13	1249.28
R-04	1198.45	1198.51	1199.04	1199.22	1196.43	1198.74	1197.57
O-03	1244.53	1245.66	1245.79	1246.47	1246.73	1247.13	1249.28
R-05	1217.07	1219.20	1219.75	1220.25	1219.39	1219.38	1221.30
O-04	1240.66	1241.83	1241.99	1242.38	1242.68	1243.75	1244.45
R-06	1205.07	1205.91	1203.65	1208.28	1203.67	1204.58	1206.28
O-04	1240.66	1241.83	1241.99	1242.38	1242.68	1243.75	1244.45
O-05	1239.46	1240.69	1240.73	1240.99	1241.35	1242.68	1243.32
R-07	1235.55	1236.46	1236.55	1236.87	1237.33	1238.60	1239.43
O-05	1239.46	1240.69	1240.73	1240.99	1241.35	1242.68	1243.32
O-06	1238.11	1239.29	1239.31	1239.40	1239.90	1241.35	1242.13
R-08	1209.99	1210.86	1210.74	1210.70	1211.20	1213.62	1214.37
O-06	1238.11	1239.29	1239.31	1239.40	1239.90	1241.35	1242.13
O-07	1238.90	1240.25	1239.88	1238.47	1239.08	1240.86	1244.65

Table 3. Injection well pressures (psi)

	I-01			I-02		I-03			I-04			
Date	AVG	MIN	MAX									
9/22/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

FIGURES

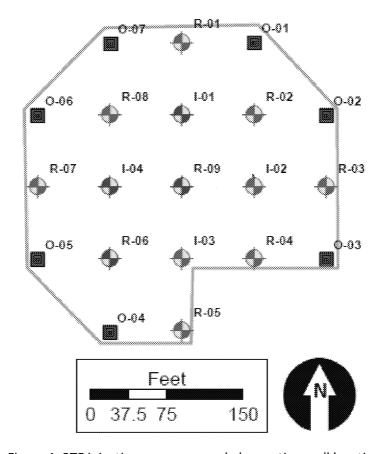


Figure 1. PTF injection, recovery, and observation well locations

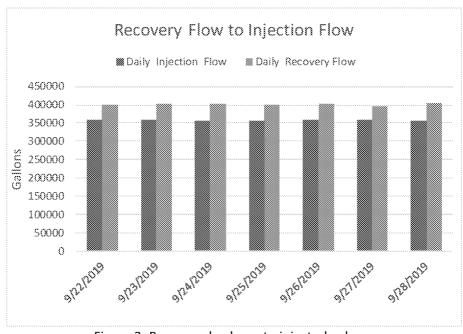


Figure 2. Recovered volume to injected volume

Figure 3

